

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended):

A method comprising:

setting a first connection between an edge gateway of a first voice packet ~~network,~~
~~having voice data of~~ network that receives voice data from a first terminal device in a
first format, and an interworking unit; ~~and~~

setting a second connection between an edge gateway of a second voice packet ~~network,~~
~~having voice data of~~ network that transmits voice data to a second terminal device in a
second format, and the interworking ~~unit,~~ unit; and

~~wherein controlling~~ the interworking unit ~~provides a conversion function to directly~~
convert ~~one of~~ the voice data of the first format to voice data of the second format ~~or the~~
~~voice data of the second format to voice data of the first format, wherein the conversion~~
~~function is controlled~~ by one of a call agent of the first voice packet network or a call
agent of the second voice packet network.

2-3. (Canceled)

4. (Previously Presented):

The method of claim 1, wherein the interworking unit interfaces with a call agent of a voice packet network.

5. (Original):

The method of claim 1, wherein the first voice packet network is a voice over asynchronous transfer mode adaptation layer 2 network.

6. (Previously Presented):

The method of claim 5, wherein the voice over asynchronous transfer mode adaptation layer 2 network is selected from the group consisting of a ITU Q.2630.1 controlled network, a PNNI controlled single-channel per Switched Virtual Circuit network, and a permanent virtual circuits network.

7. (Original):

The method of claim 1, wherein the second voice packet network is an internet protocol (IP) network capable of transporting real time protocol.

8. (Currently Amended):

The method of claim 7, wherein the interworking unit interfaces with a call agent ~~in the voice~~ over the internet protocol network.

9. (Currently Amended):

A machine-readable medium that provides executable instructions, which when executed by a processor, cause said processor to perform a method comprising:

setting a first connection between an edge gateway of a first voice packet network, having voice data of a first format, and an interworking unit; and
setting a second connection between an edge gateway of a second voice packet network, having voice data of a second format, and the interworking unit, wherein the interworking unit provides a conversion function to directly convert one of the voice data of the first format to voice data of the second format or the voice data of the second format to voice data of the first format, wherein the conversion function is controlled by one of a call agent of the first voice packet network or a call agent of the second voice packet network.

10-11. (Canceled)

12. (Previously Presented):

The machine-readable medium of claim 9, wherein the interworking unit interfaces with a call agent of a voice packet network.

13. (Original):

The machine-readable medium of claim 9, wherein the first voice packet network is a voice over asynchronous transfer mode adaptation layer 2 network.

14. (Previously Presented):

The machine-readable medium of claim 13, wherein the voice over asynchronous transfer mode adaptation layer 2 network is selected from the group consisting of a ITU Q.2630.1 controlled network, a PNNI controlled single-channel per Switched Virtual Circuit network, and a permanent virtual circuits network.

15. (Original):

The machine-readable medium of claim 9, wherein the second voice packet network is an internet protocol (IP) network capable of transporting real time protocol.

16. (Currently Amended):

The machine-readable medium of claim 15, wherein the interworking unit interfaces with a call agent ~~in the voice over~~ the internet protocol network.

17. (Currently Amended):

An apparatus comprising:

~~an a first~~ edge gateway of a first voice packet ~~network, having voice data of~~ network that receives voice data from a first terminal device in a first format;

~~an a second~~ edge gateway of a second voice packet ~~network, having voice data of~~ network that transmits voice data to a second terminal device in a second format;

an interworking unit that couples the first edge gateway to the second edge gateway; to ~~directly convert the voice data of the first format to voice data of the second format and to convert voice data of the second format to voice data of the first format;~~

a first call agent to set a first connection between the first edge gateway ~~of the first voice packet network~~ and the interworking unit; and

a second call agent to set a second connection between the second edge gateway ~~of the second voice packet network~~ and the interworking unit; ~~wherein the interworking unit provides a conversion function controlled by one of a call agent of the first voice packet network or a call agent of the second voice packet network.~~

wherein one of the first call agent or the second call agent controls the interworking unit to directly convert the voice data of the first format to voice data of the second format.

18. (Previously Presented):

The apparatus of claim 17, wherein the interworking unit interfaces with a call agent of a voice packet network.

19. (Original):

The apparatus of claim 17, wherein the first voice packet network is a voice over asynchronous transfer mode adaptation layer 2 network.

20. (Previously Presented):

The apparatus of claim 19, wherein the voice over asynchronous transfer mode adaptation layer 2 network is selected from the group consisting of a ITU Q.2630.1 controlled network, a PNNI controlled single-channel per Switched Virtual Circuit network, and a permanent virtual circuits network.

21. (Original):

The apparatus of claim 17, wherein the second voice packet network is an internet protocol (IP) network capable of transporting real time protocol.

22. (Currently Amended):

The apparatus of claim 21, wherein the interworking unit interfaces with a call agent ~~in the~~ voice-over the internet protocol network.

23 – 36. (Canceled)

37. (New):

An interworking unit comprising:

a first physical layer termination that receives voice data from a first terminal device in a first voice packet format;

a second physical layer termination that transmits voice data to a second terminal device in a second voice packet format;

a voice packet network conversion module to convert data of the first voice packet format to the second voice packet format; and

a call agent interface to interface to a voice packet network call agent such that the voice packet network call agent coordinates the conversion of data from the first voice packet format directly to the second voice packet format.

38. (New):

The interworking unit of claim 37, wherein the first voice packet format is voice over internet protocol and the second voice packet format is voice over asynchronous transfer mode.

39. (New):

The interworking unit of claim 38, wherein the voice packet network call agent is a voice over internet protocol call agent.

40. (New):

The interworking unit of claim 38, wherein the voice packet network call agent is a voice over asynchronous transfer mode call agent.

41. (New):

The interworking unit of claim 37, wherein the first voice packet format is voice over asynchronous transfer mode and the second voice packet format is voice over internet protocol.

42. (New):

The interworking unit of claim 41, wherein the voice packet network call agent is a voice over internet protocol call agent.

43. (New):

The interworking unit of claim 41, wherein the voice packet network call agent is a voice over asynchronous transfer mode call agent.

44. (New):

The interworking unit of claim 37, wherein the voice data is received from a voice over asynchronous transfer mode adaptation layer 2 network selected from the group consisting of a ITU Q.2630.1 controlled network, a PNNI controlled single-channel per Switched Virtual Circuit network, and a permanent virtual circuits network.

45. (New):

The interworking unit of claim 37, wherein each terminal device is one of an individual telephone, a private telephone network, a private branch exchange (PBX), a data modem, or a fax machine.

46. (New):

An apparatus comprising:

means for setting a first connection between an edge gateway of a first voice packet network that receives voice data from a first terminal device in a first format, and an interworking unit;

means for setting a second connection between an edge gateway of a second voice packet network that transmits voice data to a second terminal device in a second format, and the interworking unit; and

means for controlling the interworking unit to directly convert the voice data of the first format to voice data of the second format by one of a call agent of the first voice packet network or a call agent of the second voice packet network.

47. (New):

The apparatus of claim 46, wherein the first voice packet format is voice over internet protocol and the second voice packet format is voice over asynchronous transfer mode.

48. (New):

The apparatus of claim 47, wherein the voice packet network call agent is a voice over internet protocol call agent.

49. (New):

The apparatus of claim 47, wherein the voice packet network call agent is a voice over asynchronous transfer mode call agent.

50. (New):

The apparatus of claim 46, wherein the first voice packet format is voice over asynchronous transfer mode and the second voice packet format is voice over internet protocol.

51. (New):

The apparatus of claim 50, wherein the voice packet network call agent is a voice over internet protocol call agent.

52. (New):

The apparatus of claim 50, wherein the voice packet network call agent is a voice over asynchronous transfer mode call agent.

53. (New):

The apparatus of claim 46, wherein the first voice packet network is a voice over asynchronous transfer mode adaptation layer 2 network selected from the group consisting of a ITU Q.2630.1 controlled network, a PNNI controlled single-channel per Switched Virtual Circuit network, and a permanent virtual circuits network.

54. (New):

The apparatus of claim 46, wherein each terminal device is one of an individual telephone, a private telephone network, a private branch exchange (PBX), a data modem, or a fax machine.